Novalloy-S S5210

Polycarbonate + ABS

PlastxWorld Inc.

Message:

Novalloy-S S5210 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) material, and the filler is 10% glass fiber reinforced material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-S S5210 are: flame retardant/rated flame.

General Information			
UL YellowCard	E47773-239765		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.28	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m²	ISO 179/1eA
23°C	7.0	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	60	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	131	°C	ASTM D648
1.8 MPa, not annealed	118	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (1.50 mm)	27	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	69.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 3		UL 746
Comparative Tracking Index (3.00 mm)	190	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	150		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	281	mm/min	UL 746

High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	42	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	90.0 - 120	°C	
Drying Time	4.0 - 5.0	hr	
Rear Temperature	200 - 240	°C	
Middle Temperature	220 - 250	°C	
Front Temperature	230 - 260	°C	
Nozzle Temperature	230 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	5.00 - 20.0	MPa	
Screw Speed	50 - 100	rpm	

Recommended distributors for this material

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